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IN THE

UNITED STATES PATENT AND TRADEMARK OFFICE

Invertor(s):

Annette Grot et al.

Serial No.:

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Examiner:

Filing Date:

March 11, 2004

Group Art Unit:

2877

Title:

PHOTONIC CRYSTAL SENSORS

COMMISSIONER FOR PATENTS PO Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

(X) under 37 CFR 1.97(b), or (Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last) () under 37 CFR 1.97(c) together with either a: () Statement under 37 CFR 1.97(e), or () a \$180.00 Processing fee under 37 CFR 1.17(p), or (After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first) () under 37 CFR 1.97 (d) together with a: () Statement under 37 CFR 1.97(e), and () a \$180.00 processing fee under 37 CFR 1.17(p). (Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge to Deposit Account 50-1078 the sum of \$0.00 . At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 50-1078 pursuant to 37 CFR 1.25.

()	Appl	licant(s)	sub	mit he	rewith	Form P	TO 1	449.	Referen	ces identi	fied	wit	h an	asteri	sk ((*)	were
disclose	d in	Patent	App	olicatio	n No				filed			_, n	ow l	J. S.	Pat	tent	No.
		, and	, as	such,	copies	thered	of are	not	included	pursuant	to	the	prov	isions	of	37	CFR
1.98(d).																	

A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

Date of Deposit: June 14, 2004

Typed Name: Linda A. limura

Signature: Q

Respectfully submitted, Angette Grot et a

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PATENT APPLICATION **FORM PTO-1449** ATTY. DOCKET NO. SERIAL NO. 10040086-1 **NST OF PATENTS AND PUBLICATIONS FOR APPLICANT** PLICANT'S INFORMATION DISCLOSURE Annette Grot et al. **STATEMENT** JUN 1 8 2004 **FILING DATE GROUP** 2877 (Use several sheets if necessary) March 11, 2004 REFERENCE DESIGNATION **U.S. PATENT DOCUMENTS EXAMINER** DOCUMENT DATE CLASS NAME SUB INITIAL **NUMBER CLASS** AA 6,661,938 12/09/03 Lim et al. ΑB AC FOREIGN PATENT DOCUMENTS DOCUMENT DATE COUNTRY **CLASS** SUB NUMBER **CLASS** AD ΑE AF AG ΑH OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.) Painter O. et al., "Defect Modes of a Two-Dimensional Photonic Crystal in an Optically Thin Dielectric A.J Slab", J. Opt. Soc. Am B, Vol. 16, No. 2, February 1999, pp. 275-285. ΑK Subramania, G. et al., "Tuning the Microcavity Resonant Wavelength in a Two-Dimensional Photonic Crystal by Modifying the Cavity Geometry", Applied Physics Letters, Vol. 83, No. 22, Dec. 1, 2003, pp. 4491-4493. AL Loncar, Marko et al., "Photonic Crystal Laser Sources for Chemical Detection", Applied Physics Letters, Vol. 82, No. 26, pp. 4648-4650. AM Vos, William et al., "Photonic Crystals: Making a Cage for Light", Villa, F. et al., "Photonic Crystal Sensor based on Surface Waves for Thin Film Characterization", Optics AN Letters, Vol. 27, No. 8, April 15, 2002, pp. 646-648. AO Kramper, P. et al. "Direct Spectroscopy of a Deep Two-Dimensional Photonic Crystal Microresonator", Physical Review B, Vol. 64, 233102, pp. 1-4. AP Schilling J.et al., "A Model System for Two-Dimensional and Three-Dimensional Photonic Crystals: Macroporous Silicon", Pure and Applied Optics, S121-S-132. AQ Birner A. et al., "Transmission of a Microcavity Structure in a Two-Dimensional Photonic Crystal based on Macroporous Silicon", Materials Science in Semiconductor Processing, 2000, pp.487-491 Foresi J. S. et al., "Photonic-Bandgap Microcavities in Optical Waveguides", Letters to Nature, Nov. 13, AR 1997, pp. 143-145.

EXAMINER

DATE CONSIDERED

Rev 5/90 (Form 3.05)